



US009637011B2

(12) **United States Patent**  
**Biagini**

(10) **Patent No.:** **US 9,637,011 B2**  
(45) **Date of Patent:** **May 2, 2017**

- (54) **CHARGER INCLUDING A DC-DC CONVERTER**
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- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 49 days.
- (21) Appl. No.: **14/382,528**
- (22) PCT Filed: **Mar. 7, 2013**
- (86) PCT No.: **PCT/EP2013/054631**  
§ 371 (c)(1),  
(2) Date: **Sep. 2, 2014**
- (87) PCT Pub. No.: **WO2013/132018**  
PCT Pub. Date: **Sep. 12, 2013**
- (65) **Prior Publication Data**  
US 2015/0134165 A1 May 14, 2015
- (30) **Foreign Application Priority Data**  
Mar. 9, 2012 (FR) ..... 12 00727
- (51) **Int. Cl.**  
**B60L 11/18** (2006.01)  
**H02M 3/00** (2006.01)  
**H02J 7/02** (2016.01)  
**B60L 1/14** (2006.01)  
**B60L 3/00** (2006.01)  
**H02M 3/155** (2006.01)
- (52) **U.S. Cl.**  
CPC ..... **B60L 11/1811** (2013.01); **B60L 1/14** (2013.01); **B60L 3/003** (2013.01); **B60L 3/0069** (2013.01);  
(Continued)

- (58) **Field of Classification Search**  
CPC ..... B60L 1/14; B60L 3/0069; B60L 11/1816; B60L 11/1864; B60L 11/1868;  
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- (57) **ABSTRACT**  
The invention relates to a charger (2) for a motor driven apparatus (8), the motor driven apparatus (8) including a battery (5) and pieces of equipment (7a, 7b, 7c), said charger (2) including: a first conversion module (3) for converting an alternating input current into a direct current having a first voltage; a second conversion module (4) for converting a direct current having a first voltage into a direct current having a second voltage that is lower than the first voltage; a switching module (6) connected to the first conversion module (3), and to the second conversion module (4), suitable for being connected to the battery (5); the switching module (6) being suitable for: in a charging mode, supplying power to the second conversion module (4) and the battery (5) via the first conversion module (3); in a use mode, supplying power to the second conversion module (4) via the battery (5); the second conversion module (4) being suitable for supplying power to the pieces of equipment (7a, 7b, 7c), and the second conversion module (4) including an SEPIC converter. The invention also relates to the motor driven apparatus including said device and to an electrical power supply method that uses said device.

**8 Claims, 3 Drawing Sheets**

